Intern: I Application No PC1/182005/050449 U 016429-4

CLASSIFICATION OF SUBJECT MATTER PC 7 C10G2/00 C070 C07C41/01 C07C41/09 C07C1/20 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C10G C07C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. GB 2 092 172 A (SHELL INTERNATIONALE 1 - 18X RESEARCH MAATSCHAPPIJ BV) 11 August 1982 (1982-08-11) page  $\overline{1}$ , line 51 - 1ine 55 page 3, line 33 - 1ine 38page 6, line 2 - line 20; claims; examples 3.5 - 81 - 18X GB 2 097 382 A (MOBIL OIL CORP) 3 November 1982 (1982-11-03) page 5, line 14 - page 6, line 8; claims 21-24; figure 5 WO 02/26676 A (EXXONMOBIL CHEMICAL PATENTS 1-18 A INC) 4 April 2002 (2002-04-04) page 3, line 13 - line 23 page 7, line 30 - page 8, line 19 Further documents are tisted in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the \*A\* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an Inventive step when the document is combined with one or more other such docu-O document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. \*P\* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion-of the international search 05/08/2005 12 July 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Seufert, G Fax: (+31-70) 340-3016

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"Ullmann's Encyclopedia of Industrial Chemistry, vol. 8" 2003, WILEY-VCH , WEINHEIM , XP002335608 page 651 - page 668	1-18
A	WO 02/094426 A (CHEVRON U.S.A. INC; SASOL TECHNOLOGY LIMITED) 28 November 2002 (2002-11-28) page 10, line 30 - page 17, line 24	1-18
A	US 2003/018088 A1 (RAJE AJOY P ET AL) 23 January 2003 (2003-01-23) page 4, paragraph 32 page 4, paragraph 37 - page 5, left-hand column, line 5	1-18
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itional application No. PCT/IB2005/050449

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:  because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

# FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

- 1. claims: 1-14, 16 and 17, 18 as far as they refer to claim 16

  Process for the preparation of hydrocarbons and dimethyl ether
- 2. claims: claims 15 and 17, 18 as far as they refer to claim 15
  Process for the preparation of liquid fuel and light olefins